

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"10580855"	US-PGPUB; USPAT	OR	ON	2009/08/24 17:24
S2	1	{{(JUAN) near2 ("SANCHEZ REQ O")}.INV.	US-PGPUB; USPAT	OR	ON	2009/08/24 17:25
S3	1	{{(JOSE) near2 ("SANCHEZ MARTINEZ")}.INV.	US-PGPUB; USPAT	OR	ON	2009/08/24 17:25
S4	1	{{(JUAN) near2 ("SANCHEZ REQ O")}.INV.	EPO; JPO; DERWENT	OR	ON	2009/08/24 17:26
S5	1	{{(JOSE) near2 ("SANCHEZ MARTINEZ")}.INV.	EPO; JPO; DERWENT	OR	ON	2009/08/24 17:26
S6	3	"5725632"	US-PGPUB; USPAT	OR	ON	2009/08/25 09:22
S7	4	{"4087276"   "5232488").PN. OR ("5725632").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/25 09:23
S8	0	("catedra de metalurgia").as.	US-PGPUB; USPAT	OR	ON	2009/08/25 09:26
S9	29	("metalurgia").as.	US-PGPUB; USPAT	OR	ON	2009/08/25 09:26
S10	7	("universidad de oviedo").as.	US-PGPUB; USPAT	OR	ON	2009/08/25 09:28
S11	0	("universidad de oviedo").as.	EPO; JPO; DERWENT	OR	ON	2009/08/25 09:29
S12	0	("universidad de oviedo")	EPO; JPO; DERWENT	OR	ON	2009/08/25 09:29
S13	160	("oviedo").as.	EPO; JPO; DERWENT	OR	ON	2009/08/25 09:29
S14	5	("ferroatlantica").as.	EPO; JPO; DERWENT	OR	ON	2009/08/25 09:30
S15	2	("ferroatlantica").as.	US-PGPUB; USPAT	OR	ON	2009/08/25 09:30
S16	1	("oviedo").as. and manganese	EPO; JPO; DERWENT	OR	ON	2009/08/25 09:32
S17	21721	manganese and (ferroalloy or waste)	US-PGPUB; USPAT	OR	ON	2009/08/25 10:04
S18	23588	manganese and (ferroalloy or waste or sludge)	US-PGPUB; USPAT	OR	ON	2009/08/25 10:04
S19	23861	manganese and (ferroalloy or waste or sludge or ferromanganese or silicomanganese)	US-PGPUB; USPAT	OR	ON	2009/08/25 10:04

S20	428	manganese and (ferroalloy or waste or sludge or ferromanganese or silicomanganese) and (ferromanganese or silicomanganese)	US-PGPUB; USPAT	OR	ON	2009/08/25 10:05
S21	405	manganese and (ferroalloy or waste or sludge or ferromanganese or silicomanganese) and (ferromanganese or silicomanganese) and @py<"2007"	US-PGPUB; USPAT	OR	ON	2009/08/25 10:05
S22	254	manganese and (ferroalloy or waste or sludge or ferromanganese or silicomanganese) and (ferromanganese or silicomanganese) and electro\$9	US-PGPUB; USPAT	OR	ON	2009/08/25 10:06
S23	148	manganese and (ferroalloy or waste or sludge or ferromanganese or silicomanganese) and (ferromanganese or silicomanganese) and electro\$9 and sul\$9	US-PGPUB; USPAT	OR	ON	2009/08/25 10:11
S24	4	((("2511507") or ("2483287") or ("2347451") or ("2343293")).PN.	US-PGPUB; USPAT	OR	OFF	2009/08/25 10:15
S25	0	"528.112"	EPO; JPO; DERWENT	OR	ON	2009/08/25 10:18
S26	13	"528112"	EPO; JPO; DERWENT	OR	ON	2009/08/25 10:18
S27	0	"improvements in the electrolytic production of manganese"	EPO; JPO; DERWENT	OR	ON	2009/08/25 10:19
S28	0	("improvements in the electrolytic production of manganese").ti.	EPO; JPO; DERWENT	OR	ON	2009/08/25 10:19
S29	0	(improvements with electrolytic with production with manganese).ti.	EPO; JPO; DERWENT	OR	ON	2009/08/25 10:20
S30	164	(electrolytic with production with manganese).ti.	EPO; JPO; DERWENT	OR	ON	2009/08/25 10:20
S31	0	(electrolytic with production with manganese with improvement).ti.	EPO; JPO; DERWENT	OR	ON	2009/08/25 10:20
S32	0	(electrolytic with production with manganese with improvment).ti.	EPO; JPO; DERWENT	OR	ON	2009/08/25 10:20
S33	0	(electrolytic with production with manganese with improvements).ti.	EPO; JPO; DERWENT	OR	ON	2009/08/25 10:20
S34	4	(electrolytic with production with manganese with improve\$5).ti.	EPO; JPO; DERWENT	OR	ON	2009/08/25 10:20
S35	164	(electrolytic with production with manganese).ti.	EPO; JPO; DERWENT	OR	ON	2009/08/25 10:21
S36	1	"4224119"	US-PGPUB; USPAT	OR	ON	2009/08/25 13:05

S37	5	("0704393"   "3018233"   "4010236").PN. OR ("4224119").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/25 13:05
S38	8	"3900385"	US-PGPUB; USPAT	OR	ON	2009/08/25 13:12
S39	113	205/573.ccls.	US-PGPUB; USPAT	OR	ON	2009/08/25 13:52
S40	13	("2853444"   "2888390"   "2978394"   "3034973"   "3696011"   "3821096").PN. OR ("4149944").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/25 14:13
S41	3	"2739116"	US-PGPUB; USPAT	OR	ON	2009/08/25 14:13
S42	3178	((sulphat\$3 or sulfat\$3) with manganese) and (furnace or oven or heater or stove)	US-PGPUB; USPAT	OR	ON	2009/08/26 10:55
S43	153	((sulphat\$3 or sulfat\$3) with manganese) same (furnace or oven or heater or stove)	US-PGPUB; USPAT	OR	ON	2009/08/26 10:55
S44	136	((sulphat\$3 or sulfat\$3) with manganese) same (furnace or oven or heater or stove) and @py<"2007"	US-PGPUB; USPAT	OR	ON	2009/08/26 10:55
S45	3	((sulphat\$3 or sulfat\$3) with manganese) same (furnace or oven or heater or stove) and @py<"2007" and (ferroalloy or ferromanganese or siliconmanganese)	US-PGPUB; USPAT	OR	ON	2009/08/26 10:56
S46	136	((sulphat\$3 or sulfat\$3) with manganese) same (furnace or oven or heater or stove) and @py<"2007"	US-PGPUB; USPAT	OR	ON	2009/08/26 10:58
S47	14	((sulphat\$3 or sulfat\$3) with manganese with (acid or sulphuric or sulfuric or "H2.sub.SO4")) same (furnace or oven or heater or stove) and @py<"2007"	US-PGPUB; USPAT	OR	ON	2009/08/26 11:03
S48	658	((sulphat\$3 or sulfat\$3) with manganese with (acid or sulphuric or sulfuric or "H2.sub.SO4")) and (furnace or oven or heater or stove) and @py<"2007"	US-PGPUB; USPAT	OR	ON	2009/08/26 11:07
S49	863	((sulphat\$3 or sulfat\$3) with manganese with (acid or sulphuric or sulfuric or "H2.sub.SO4")) and (furnace or oven or heater or stove) and @py<"2007"	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 11:07
S50	107	((sulphat\$3 or sulfat\$3) with manganese with (acid or sulphuric or sulfuric or "H2.sub.SO4")) same (furnace or oven or heater or stove) and @py<"2007"	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 11:08
S51	1	kasimov.as.	US-PGPUB; USPAT	OR	ON	2009/08/26 11:47

S52	0	((acid with leach\$3) same ((base or antacid) with (coated near2 (reactor or container))))	US-PGPUB; USPAT	OR	ON	2009/08/26 16:01
S53	0	((leach\$3) same ((base or antacid) with (coated near2 (reactor or container))))	US-PGPUB; USPAT	OR	ON	2009/08/26 16:02
S54	0	((leach\$3) same ((base or antacid) with (coat\$3 near2 (reactor or container))))	US-PGPUB; USPAT	OR	ON	2009/08/26 16:02
S55	1	((coat\$3 near2 (reactor or container)) same (leach\$3) same (base or antacid))	US-PGPUB; USPAT	OR	ON	2009/08/26 16:02
S56	59571	((leach\$3 or lixiviat\$3)	US-PGPUB; USPAT	OR	ON	2009/08/26 16:03
S57	6897	((leach\$3 or lixiviat\$3) and manganese	US-PGPUB; USPAT	OR	ON	2009/08/26 16:03
S58	1119	((leach\$3 or lixiviat\$3) and manganese and (coat\$3 with (bas \$2 or antacid))	US-PGPUB; USPAT	OR	ON	2009/08/26 16:04
S59	21	((leach\$3 or lixiviat\$3) and manganese and ((coat\$3 with (bas \$2 or antacid)) with (reactor or container))	US-PGPUB; USPAT	OR	ON	2009/08/26 16:05
S60	22	((leach\$3 or lixiviat\$3) and manganese and ((coat\$3 with (bas \$2 or antacid)) with (reactor or container))	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 16:06
S61	3	((acid with (leach\$3 or lixiviat\$3)) and manganese and ((coat\$3 with (bas\$2 or antacid)) with (reactor or container))	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 16:09
S62	9	((acid with (leach\$3 or lixiviat\$3)) and ((coat\$3 with (bas\$2 or antacid)) with (reactor or container))	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 16:09
S63	373	((acid with (leach\$3 or lixiviat\$3)) with (reactor or container)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 16:11
S64	0	((acid with (leach\$3 or lixiviat\$3)) with (reactor or container) and antacid	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 16:11
S65	287	((acid with (leach\$3 or lixiviat\$3)) with (reactor or container) and bas \$2	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 16:11
S66	55	((acid with (leach\$3 or lixiviat\$3)) with (reactor or container) same bas\$2	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 16:11
S67	116	((acid with (leach\$3 or lixiviat\$3)) with (reactor or container or vessel) same bas\$2	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 16:13
S68	217	((acid with (leach\$3 or lixiviat\$3)) with (reactor or container or vessel or tank) same bas\$2	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 16:17

S69	41	{acid with (leach\$3 or lixiviat\$3)) with (reactor or container or vessel or tank) same (bas\$2 with (coat\$3 or treat\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 16:17
S70	43	{acid with (leach\$3 or lixiviat\$3)) with (reactor or container or vessel or tank) same ((bas\$2 or "acid resistant") with (coat\$3 or treat\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 16:32
S71	44	{acid with (leach\$3 or lixiviat\$3)) with (reactor or container or vessel or tank) same ((bas\$2 or "acid resistant") with (coat\$3 or treat\$4 or lining))	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/26 16:32
S72	652	{electrolytic or electrowinning or electro-winning or electro \$1winning or electrodeposition or electro\$1deposition or electrodeposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2O.sub.4")	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 11:32
S73	727	{electrolytic or electrowinning or electro-winning or electro \$1winning or electrodeposition or electro\$1deposition or electrodeposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid")	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 11:32
S74	593	{electrolytic or electrowinning or electro-winning or electro \$1winning or electrodeposition or electro\$1deposition or electrodeposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006"	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 11:33
S75	7	{electrolytic or electrowinning or electro-winning or electro \$1winning or electrodeposition or electro\$1deposition or electrodeposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and ((ferroalloy or iron or ferro or manufacturing or process) near2 waste)	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 11:34

S76	13	{(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and ((ferroalloy or iron or ferro or manufacturing or process or production) near2 waste)}	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 11:34
S77	134	{(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (leach \$3 or lixiviat\$3)}	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 11:35
S78	15	{(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (leach \$3 or lixiviat\$3)}	EPO; JPO; DERWENT	OR	ON	2010/03/16 12:05
S79	45	("4497637"   "4572829"   "4628066"   "4631183"   "4725380"   "4766154"   "4801574"   "4829039"   "4869731"   "4910227"   "4950309"   "5009770"   "5074890"   "5179129"   "5218003"   "5252609"   "5254368"   "5271340"   "5282431"   "5284878"   "5311830"   "5344848"   "5363780"   "5434337"   "5707230"   "5707592"   "5711924"   "5723717"   "5725632"   "5788723"   "5865023"   "6084139").PN. OR ("6211254").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:10
S80	264	{(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (leach \$3 or lixiviat\$3 or strip\$4)}	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:13

S81	102	S80 not S77	US-PGPUB; USPAT	OR	ON	2010/03/16 13:13
S82	0	(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (ferroalloy near2 waste)	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:16
S83	0	(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (ferroalloy near2 (waste or sludge or gas or slag))	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:17
S84	0	(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (ferroalloy near3 (waste or sludge or gas or slag))	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:17
S85	4	(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (ferroalloy)	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:18
S86	23	(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (ferroalloy or ferromanganese)	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:24

S87	1	(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (((ferroalloy or ferromanganese or ((iron near2 manganese) with alloy)) with waste)	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:46
S88	1	(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (((ferroalloy or ferromanganese or ((iron near2 manganese) with alloy)) with waste)	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:46
S89	559	(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (((ferroalloy or ferromanganese or ((iron near2 manganese) with alloy)) with manufactur\$3 or produc\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:47
S90	12	(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electro-deposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (((ferroalloy or ferromanganese or ((iron near2 manganese) with alloy)) with (manufactur\$3 or produc\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:47



S91	4	{(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electrodeposition or electrolysis) near2 manganese and (sulfation or sulphate or sulphation or sulfate or "h.sub.2SO.sub.4" or "sulfuric acid") and @py<"2006" and (((ferroalloy or ferromanganese or ((iron near2 manganese) with alloy)) with (manufactur\$3 or produc\$4)) and waste	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:48
S92	7	{(electrolytic or electrowinning or electro-winning or electro\$1winning or electrodeposition or electro\$1deposition or electrodeposition or electrolysis) near2 manganese and @py<"2006" and (((ferroalloy or ferromanganese or ((iron near2 manganese) with alloy)) with (manufactur\$3 or produc\$4)) and waste	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:48
S93	177	@py<"2006" and (((ferroalloy or ferromanganese or ((iron near2 manganese) with alloy)) with (manufactur\$3 or produc\$4)) and waste	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:49
S94	28	@py<"2006" and (((ferroalloy or ferromanganese or ((iron near2 manganese) with alloy)) with (manufactur\$3 or produc\$4)) with waste	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/16 13:49
S95	10	{(furnace or oven or heater or stove) and @py<"2005" and (((teflon or PTFE or polytetrafluoroethylene) with (trays or pans)) and ("204".clas. or "205".clas.)	US-PGPUB; USPAT	OR	ON	2010/03/17 13:56
S96	1	{(furnace or oven or heater or stove) same ((teflon or PTFE or polytetrafluoroethylene) with (trays or pans)) and ("204".clas. or "205".clas.) and @py<"2005"	US-PGPUB; USPAT	OR	ON	2010/03/17 13:57
S97	297	{(furnace or oven or heater or stove) same ((teflon or PTFE or polytetrafluoroethylene) with (trays or pans)) and @py<"2005"	US-PGPUB; USPAT	OR	ON	2010/03/17 13:58
S98	149	{(furnace or oven or heater or stove) same ((teflon or PTFE or polytetrafluoroethylene) with (trays or pans)) and @py<"2005" and (sulfate or sulphate)	US-PGPUB; USPAT	OR	ON	2010/03/17 13:59
S99	7	manganese with "exhaust gas" with furnace	US-PGPUB; USPAT	OR	ON	2011/07/14 15:23
S100	2	"exhaust gas" with furnace with ferroalloy	US-PGPUB; USPAT	OR	ON	2011/07/14 15:25

S101	2	("exhaust gas" or "exhaust fumes" or "wet gas scrubbing") with furnace with ferroalloy	US-PGPUB; USPAT	OR	ON	2011/07/14 15:26
S102	1	("exhaust gas" or "exhaust fumes" or "wet gas scrubbing") with furnace with ferroalloy and manganese	US-PGPUB; USPAT	OR	ON	2011/07/14 15:26
S103	1	(scrubbing or scrubber) with furnace with ferroalloy and manganese	US-PGPUB; USPAT	OR	ON	2011/07/14 15:26
S104	5	(scrubbing or scrubber) and furnace same ferroalloy and manganese	US-PGPUB; USPAT	OR	ON	2011/07/14 15:27
S105	1	(scrubbing or scrubber) and furnace same ferroalloy and manganese and (scrubb\$3 near2 waste) with manganese	US-PGPUB; USPAT	OR	ON	2011/07/14 15:29
S106	3	(scrubb\$3 near2 waste) with manganese	US-PGPUB; USPAT	OR	ON	2011/07/14 15:29
S107	9	(scrubb\$3 near2 waste) same manganese	US-PGPUB; USPAT	OR	ON	2011/07/14 15:30
S108	14	(scrubb\$3 near2 (waste or effluent)) same manganese	US-PGPUB; USPAT	OR	ON	2011/07/14 15:32
S109	682	electrolytic same manganese with (aqueous or water)	US-PGPUB; USPAT	OR	ON	2011/07/14 15:33
S110	66	(electrolytic with (treatment or processing)) same manganese with (aqueous or water)	US-PGPUB; USPAT	OR	ON	2011/07/14 15:33
S111	219592	(manganese sludge)	US-PGPUB; USPAT	OR	ON	2011/07/14 15:40
S112	1383	(manganese sludge) and ("204". clas. and "205". clas.)	US-PGPUB; USPAT	OR	ON	2011/07/14 15:40
S113	0	("manganese sludge") and ("204". clas. and "205". clas.)	US-PGPUB; USPAT	OR	ON	2011/07/14 15:40
S114	8	("manganese sludge")	US-PGPUB; USPAT	OR	ON	2011/07/14 15:40
S115	0	ferromanganese near2 production same "manganese slag"	US-PGPUB; USPAT	OR	ON	2011/07/14 15:44
S116	44	ferromanganese near2 production	US-PGPUB; USPAT	OR	ON	2011/07/14 15:44
S117	14	(scrubb\$3 near2 (waste or effluent)) same manganese	US-PGPUB; USPAT	OR	ON	2011/08/24 10:18
S118	36504	(treat\$4 or process\$3 or purif\$7) with "exhaust gas"	US-PGPUB; USPAT	OR	ON	2011/08/24 10:23
S119	45	(treat\$4 or process\$3 or purif\$7) with "exhaust gas" and (ferroalloy or ferromanganese or silicoalloy or silicomanganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 10:24

SI20	36542	(treat\$4 or process\$3 or purif\$7) with ("exhaust gas" or "waste gas" and (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese) with (furnace or oven or heater or stove)	US-PGPUB; USPAT	OR	ON	2011/08/24 10:31
SI21	87	(treat\$4 or process\$3 or purif\$7) with ("exhaust gas" or "waste gas") and (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese) with (furnace or oven or heater or stove)	US-PGPUB; USPAT	OR	ON	2011/08/24 10:31
SI22	10	(treat\$4 or process\$3 or purif\$7) with ("exhaust gas" or "waste gas") same (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese) with (furnace or oven or heater or stove)	US-PGPUB; USPAT	OR	ON	2011/08/24 10:31
SI23	12	(manganese near4 sludge) and ("204".clas. or "205".clas.)	US-PGPUB; USPAT	OR	ON	2011/08/24 10:38
SI24	1	(manganese near4 sludge) and ("exhaust gas" or "waste gas") and (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese) with (furnace or oven or heater or stove)	US-PGPUB; USPAT	OR	ON	2011/08/24 10:45
SI25	1	(manganese near4 sludge) and ("exhaust gas" or "waste gas") and (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese) with (furnace or oven or heater or stove)	US-PGPUB; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/24 10:45
SI26	1	(manganese near4 sludge) and ("exhaust gas" or "waste gas") and (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese) and (furnace or oven or heater or stove)	US-PGPUB; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/24 10:46
SI27	1	(manganese near4 sludge) and ("exhaust gas" or "waste gas") and (furnace or oven or heater or stove)	US-PGPUB; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/24 10:46
SI28	6	(manganese near4 sludge) and ("exhaust gas" or "waste gas")	US-PGPUB; USOCR; EPO; JPO; DERWENT	OR	ON	2011/08/24 10:46
SI29	90	(treat\$4 or process\$3 or purif\$7 or clean\$3) with ("exhaust gas" or "waste gas") and (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese) with (furnace or oven or heater or stove)	US-PGPUB; USPAT	OR	ON	2011/08/24 10:57

S130	2549	(treat\$4 or process\$3 or purif\$71 or clean\$3) with ("exhaust gas" or "waste gas" or gas) with (furnace or oven or heater or stove) and (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 10:58
S131	1199	(treat\$4 or process\$3 or purif\$71 or clean\$3) near4 ("exhaust gas" or "waste gas" or gas) with (furnace or oven or heater or stove) and (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 10:58
S132	683	(treat\$4 or process\$3 or purif\$71 or clean\$3) near4 ("exhaust gas" or "waste gas" or gas) near4 (furnace or oven or heater or stove) and (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 10:58
S133	19	(treat\$4 or process\$3 or purif\$71 or clean\$3) near4 ("exhaust gas" or "waste gas" or gas) near4 (furnace or oven or heater or stove) same (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 10:58
S134	4	"4731232"	US-PGPUB; USPAT	OR	ON	2011/08/24 11:03
S135	2	(treat\$4 or process\$3 or purif\$71 or clean\$3) near4 ("exhaust gas" or "waste gas" or "flue gas" or "industrial gas") near4 (furnace or oven or heater or stove) same (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 11:05
S136	16	(scrubb\$3 near2 (waste or effluent or wash)) same manganese	US-PGPUB; USPAT	OR	ON	2011/08/24 11:15
S137	2	S136 not S117	US-PGPUB; USPAT	OR	ON	2011/08/24 11:16
S138	359	(scrubb\$3 near2 (waste or effluent or wash)) and manganese	US-PGPUB; USPAT	OR	ON	2011/08/24 11:16
S139	359	(scrubb\$3 near2 (waste or effluent or wash)) and manganese and (treat\$4 or process\$3 or purif\$71 or clean\$3)	US-PGPUB; USPAT	OR	ON	2011/08/24 11:17
S140	359	(scrubb\$3 near2 (waste or effluent or wash)) and manganese and (treat\$4 or process\$3 or purif\$71 or clean\$3) and (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 11:17

S141	359	{scrubb\$3 near2 (waste or effluent or wash)) and manganese and (treat\$4 or process\$3 or purif \$71 or clean\$3) and (ferroalloy or ferromanganese or silicoalloy or silicomanganese or manganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 11:18
S142	3	{scrubb\$3 near2 (waste or effluent or wash)) and manganese and (treat\$4 or process\$3 or purif \$71 or clean\$3) and (ferroalloy or ferromanganese or silicoalloy or silicomanganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 11:19
S143	16	(ferroalloy or ferromanganese or silicoalloy or silicomanganese) with slag with composition	US-PGPUB; USPAT	OR	ON	2011/08/24 12:08
S144	0	(ferroalloy or ferromanganese or silicoalloy or silicomanganese) with ("waste gas" or "exhaust gas" or "flue gas") with composition	US-PGPUB; USPAT	OR	ON	2011/08/24 15:20
S145	11	(ferroalloy or ferromanganese or silicoalloy or silicomanganese) with (gas) with composition	US-PGPUB; USPAT	OR	ON	2011/08/24 15:20
S146	0	(ferroalloy or ferromanganese or silicoalloy or silicomanganese) with (exhaust or waste) with (particle or dust) with composition	US-PGPUB; USPAT	OR	ON	2011/08/24 15:22
S147	0	(ferroalloy or ferromanganese or silicoalloy or silicomanganese) and (exhaust or waste) with (particle or dust) with composition with (furnace or oven or heater or stove)	US-PGPUB; USPAT	OR	ON	2011/08/24 15:22
S148	0	(ferroalloy or ferromanganese or silicoalloy or silicomanganese) with (particle or dust) with composition with (furnace or oven or heater or stove)	US-PGPUB; USPAT	OR	ON	2011/08/24 15:23
S149	11	(ferroalloy or ferromanganese or silicoalloy or silicomanganese) and (particle or dust) with composition with (furnace or oven or heater or stove)	US-PGPUB; USPAT	OR	ON	2011/08/24 15:23
S150	0	(ferroalloy or ferromanganese or silicoalloy or silicomanganese) with ("waste gas" or "exhaust gas" or "flue gas" or "off gas") with composition	US-PGPUB; USPAT	OR	ON	2011/08/24 15:24
S151	0	(ferroalloy or ferromanganese or silicoalloy or silicomanganese) with ("waste gas" or "exhaust gas" or "flue gas" or "stack gas") with composition	US-PGPUB; USPAT	OR	ON	2011/08/24 15:44

S152	0	((ferroalloy or ferromanganese or silicoalloy or silicomanganese) same ("waste gas" or "exhaust gas" or "flue gas" or "stack gas") with composition	US-PGPUB; USPAT	OR	ON	2011/08/24 15:44
S153	0	((ferroalloy or ferromanganese or silicoalloy or silicomanganese) same ((waste or exhaust or flue or off or stack) near2 gas) with composition	US-PGPUB; USPAT	OR	ON	2011/08/24 15:45
S154	3	((ferroalloy or ferromanganese or silicoalloy or silicomanganese or "metallurgical furnaces") same ((waste or exhaust or flue or off or stack) near2 gas) with composition	US-PGPUB; USPAT	OR	ON	2011/08/24 15:45
S155	3	((ferroalloy or ferromanganese or silicoalloy or silicomanganese or "metallurgical furnaces") same ((waste or exhaust or flue or off or stack) near2 gas) with (composition or percentage)	US-PGPUB; USPAT	OR	ON	2011/08/24 15:50
S156	3	((ferroalloy or ferromanganese or silicoalloy or silicomanganese or "metallurgical furnaces") same ((waste or exhaust or flue or off or stack) near2 gas) with (composition or percentage or percent)	US-PGPUB; USPAT	OR	ON	2011/08/24 15:50
S157	3	((ferroalloy or ferromanganese or silicoalloy or silicomanganese or "metallurgical furnaces") same ((waste or exhaust or flue or off or stack) near2 gas) with (composition or percentage or percent or makeup)	US-PGPUB; USPAT	OR	ON	2011/08/24 15:50
S158	3	((ferroalloy or ferromanganese or silicoalloy or silicomanganese or "metallurgical furnaces") same ((waste or exhaust or flue or off or stack) near2 gas) with (composition or percentage or percent or makeup or "by weight")	US-PGPUB; USPAT	OR	ON	2011/08/24 15:50
S159	161	ferroalloy with furnace	US-PGPUB; USPAT	OR	ON	2011/08/24 16:02
S160	1018	ferroalloy or ferromanganese with furnace	US-PGPUB; USPAT	OR	ON	2011/08/24 16:02
S161	241	((ferroalloy or ferromanganese) with furnace	US-PGPUB; USPAT	OR	ON	2011/08/24 16:02
S162	241	((ferroalloy or ferromanganese or silicoalloy) with furnace	US-PGPUB; USPAT	OR	ON	2011/08/24 16:02
S163	241	((ferroalloy or ferromanganese or silico-alloy) with furnace	US-PGPUB; USPAT	OR	ON	2011/08/24 16:03
S164	241	((ferroalloy or ferromanganese or silicalloy) with furnace	US-PGPUB; USPAT	OR	ON	2011/08/24 16:03

SI65	241	((ferroalloy or ferromanganese or silico\$1alloy) with furnace	US-PGPUB; USPAT	OR	ON	2011/08/24 16:03
SI66	243	((ferroalloy or ferromanganese or silicomanganese) with furnace	US-PGPUB; USPAT	OR	ON	2011/08/24 16:03
SI67	297	((ferroalloy or ferromanganese or silicomanganese or "silicon manganese") with furnace	US-PGPUB; USPAT	OR	ON	2011/08/24 16:03
SI68	310	((ferroalloy or ferromanganese or silicomanganese or "silicon manganese") with (furnace or oven or heater or stove)	US-PGPUB; USPAT	OR	ON	2011/08/24 16:04
SI69	45	((ferroalloy or ferromanganese or silicomanganese or "silicon manganese") with (furnace or oven or heater or stove) with gas	US-PGPUB; USPAT	OR	ON	2011/08/24 16:04
SI70	14	((ferroalloy or ferromanganese or silicomanganese or "silicon manganese") with (furnace or oven or heater or stove) with gas and scrubb\$3	US-PGPUB; USPAT	OR	ON	2011/08/24 16:04
SI71	15	((ferroalloy or ferromanganese or silicomanganese or "silicon manganese") with (furnace or oven or heater or stove) with (gas or particulate or particle) and scrubb\$3	US-PGPUB; USPAT	OR	ON	2011/08/24 16:07
SI72	54	((ferroalloy or ferromanganese or silicomanganese or "silicon manganese") with (furnace or oven or heater or stove) with (gas or particulate or particle)	US-PGPUB; USPAT	OR	ON	2011/08/24 16:08
SI73	2	((ferroalloy or ferromanganese or silicomanganese or "silicon manganese") with (furnace or oven or heater or stove) with (gas or particulate or particle) with composition	US-PGPUB; USPAT	OR	ON	2011/08/24 16:08
SI74	11	((ferroalloy or ferromanganese or silicomanganese or "silicon manganese") with (furnace or oven or heater or stove) with (gas or particulate or particle or dust) near2 (flue or exhaust or waste or off or stack)	US-PGPUB; USPAT	OR	ON	2011/08/24 16:12
SI75	20	((ferroalloy or ferromanganese or silicomanganese or "silicon manganese") same (furnace or oven or heater or stove) with (gas or particulate or particle or dust) near2 (flue or exhaust or waste or off or stack)	US-PGPUB; USPAT	OR	ON	2011/08/24 16:14
SI76	16	("1680107"   "2277663"   "2494420"   "2582386"   "2861881"   "2877086"   "3326669"   "3567811").PN. OR ("3905805").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/08/24 16:18

S177	1	{ferroalloy or ferromanganese or silicomanganese or "silicon manganese"} same (furnace or oven or heater or stove) with (gas or particulate or particle or dust) near2 (flue or exhaust or waste or off or stack) and ("204".clas. or "205".clas.)	US-PGPUB; USPAT	OR	ON	2011/08/24 16:28
S178	648	{furnace or oven or heater or stove) with (gas or particulate or particle or dust) near2 (flue or exhaust or waste or off or stack) and ("204".clas. or "205".clas.)	US-PGPUB; USPAT	OR	ON	2011/08/24 16:28
S179	517	{furnace or oven or heater or stove) with (gas or particulate or particle or dust) near2 (flue or exhaust or waste or off or stack) and ("204".clas. or "205".clas.) and @py<"2007"	US-PGPUB; USPAT	OR	ON	2011/08/24 16:29
S180	43	{furnace or oven or heater or stove) with (gas or particulate or particle or dust) near2 (flue or exhaust or waste or off or stack) and ("204".clas. or "205".clas.) and @py<"2007" and (electrolytic or electrolysis) with (metal or manganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 16:29
S181	679	{gas or particulate or particle or dust or fines) near2 (flue or exhaust or waste or off or stack) and ("204".clas. or "205".clas.) and @py<"2007" and (electrolytic or electrolysis) with (metal or manganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 16:38
S182	21	{gas or particulate or particle or dust or fines) near2 (flue or exhaust or waste or off or stack) and ("204".clas. or "205".clas.) and @py<"2007" and (electrolytic or electrolysis) with (manganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 16:38
S183	0	{gas or particulate or particle or dust or fines) near2 (flue or exhaust or waste or off or stack) and ("204".clas. or "205".clas.) and @py<"2007" and (electrolytic or electrolysis) with (manganese). ti.	US-PGPUB; USPAT	OR	ON	2011/08/24 16:38
S184	10	{particulate or particle or dust or fines) near2 (flue or exhaust or waste or off or stack) and ("204".clas. or "205".clas.) and @py<"2007" and (electrolytic or electrolysis) with (manganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 16:41



S185	77	(particulate or particle or dust or fines) near2 (flue or exhaust or waste or off or stack or metal or oxide) and ("204".clas. or "205". clas.) and @py<"2007" and (electrolytic or electrolysis) with (manganese)	US-PGPUB; USPAT	OR	ON	2011/08/24 16:41
S186	8	(particulate or particle or dust or fines) near2 (flue or exhaust or waste or off or stack or metal or oxide) and ("204".clas. or "205". clas.) and @py<"2007" and (electrolytic or electrolysis) with (manganese).ti.	US-PGPUB; USPAT	OR	ON	2011/08/24 16:41
S187	0	(particulate or particle or dust or fines) with (ferroalloy or ferromanganese or silicomanganese or "silicon manganese") and ("204".clas. or "205".clas.) and @py<"2007" and (electrolytic or electrolysis) with (manganese).ti.	US-PGPUB; USPAT	OR	ON	2011/08/24 16:43
S188	3	(particulate or particle or dust or fines) with (ferroalloy or ferromanganese or silicomanganese or "silicon manganese") and ("204".clas. or "205".clas.) and @py<"2007" and (electrolytic or electrolysis)	US-PGPUB; USPAT	OR	ON	2011/08/24 16:43
S189	4	(particulate or particle or dust or fines) with (ferroalloy or ferromanganese or silicomanganese or "silicon manganese") and ("204".clas. or "205".clas.) and @py<"2007"	US-PGPUB; USPAT	OR	ON	2011/08/24 16:43

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